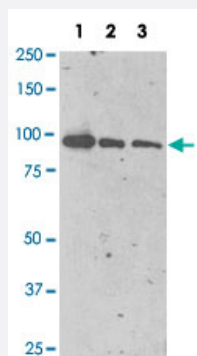


FOLH1 monoclonal antibody, clone GCP-04

Catalog # MAB3610

Size 100 ug

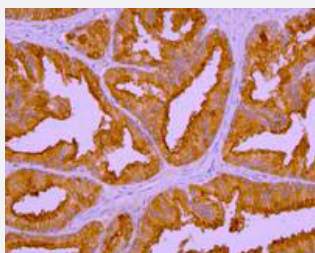
Applications



Western Blot (Recombinant protein)

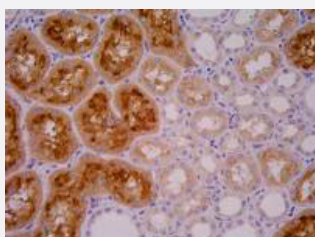
Immunostaining of a fragment of human FOLH1 (amino acids 44-750) produced in S2 cells on Western blot by FOLH1 monoclonal antibody, clone GCP-04 (Cat # MAB3610).

Lanes 1, 2, 3 represent 800, 400 and 200 pg of the protein.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of FOLH1 in human prostate by FOLH1 monoclonal antibody, clone GCP-04 (Cat # MAB3610). Mag. 400x; positive epithelium of the prostate glands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of FOLH1 in porcine kidney by FOLH1 monoclonal antibody, clone GCP-04 (Cat # MAB3610). Highly positive proximal glomeruli.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of FOLH1 in human medulla oblongata by FOLH1 monoclonal antibody, clone GCP-04 (Cat # MAB3610). Mag. 40x ; positive astrocytes in white matter.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant FOLH1.
Immunogen	Recombinant protein corresponding to amino acids 44-750 of human FOLH1.
Host	Mouse
Theoretical MW (kDa)	95-110
Reactivity	Human, Pig, Rat
Specificity	This antibody recognizes amino acids 100-104 of extracellular domain of denaturated glutamate carboxypeptidase II (PSMA, NAALADase, FOLH1), an approximately 95-110 KDa transmembrane glycoprotein.
Form	Liquid
Concentration	1 mg/mL
Isotype	IgG1
Recommend Usage	Western Blot (1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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- Immunocytochemistry

Gene Info — FOLH1

Entrez GeneID [2346](#)

Gene Name FOLH1

Gene Alias FGCP, FOLH, GCP2, GCPII, NAALAD1, NAALAdase, PSM, PSMA, mGCP

Gene Description folate hydrolase (prostate-specific membrane antigen) 1

Omim ID [600934](#)

Gene Ontology [Hyperlink](#)

Gene Summary

This gene encodes a type II transmembrane glycoprotein belonging to the M28 peptidase family. The protein acts as a glutamate carboxypeptidase on different alternative substrates, including the nutrient folate and the neuropeptide N-acetyl-L-aspartyl-L-glutamate and is expressed in a number of tissues such as prostate, central and peripheral nervous system and kidney. A mutation in this gene may be associated with impaired intestinal absorption of dietary folates, resulting in low blood folate levels and consequent hyperhomocysteinemia. Expression of this protein in the brain may be involved in a number of pathological conditions associated with glutamate excitotoxicity. In the prostate the protein is up-regulated in cancerous cells and is used as an effective diagnostic and prognostic indicator of prostate cancer. This gene likely arose from a duplication event of a nearby chromosomal region. Alternative splicing gives rise to multiple transcript variants. [provided by RefSeq]

Other Designations

N-acetylated alpha-linked acidic dipeptidase 1|cell growth-inhibiting protein 27|folate hydrolase 1|folypoly-gamma-glutamate carboxypeptidase|glutamate carboxylase II|glutamate carboxypeptidase III|membrane glutamate carboxypeptidase|prostate specific mem

Publication Reference

- [GSK-3beta-dependent destabilization of cyclin D1 mediates replicational stress-induced arrest of cell cycle.](#)

Mukherji A, Janbandhu VC, Kumar V.

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- [Myostatin induces cyclin D1 degradation to cause cell cycle arrest through a phosphatidylinositol 3-kinase/AKT/GSK-3 beta pathway and is antagonized by insulin-like growth factor 1.](#)

Yang W, Zhang Y, Li Y, Wu Z, Zhu D.

The Journal of Biological Chemistry 2007 Feb; 282(6):3799.

- [Glycogen synthase kinase-3beta regulates cyclin D1 proteolysis and subcellular localization.](#)

Diehl JA, Cheng M, Roussel MF, Sherr CJ.

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Disease

- [Aortic Aneurysm](#)
- [Atherosclerosis](#)
- [Brain Ischemia](#)
- [Cardiovascular Diseases](#)
- [Chromosome Aberrations](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cognition](#)
- [Colorectal Neoplasms](#)
- [Coronary Disease](#)

- [Diabetes Mellitus](#)
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